Shricharan Senthilkumar

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🔗 https://shricharan37.github.io/ ○ shricharan37

Education

Bachelor of Technology in Bioinformatics   October 2021 – present
SASTRA Deemed University, Thanjavur ↗
Current CGPA - 8.9786

Higher Secondary Education   May 2019 – August 2021
D.A.V. Public School, Velachery ↗
Secured 91.6% in 12th grade

Professional Experience

Summer Undergraduate Research Exposure (SURE) Intern   June 2024 – July 2024
Indian Institute of Technology, Hyderabad ↗
• Provided technical support for research projects and works

Skills

Technical Skills
Machine Learning, Deep Learning, Data
AnalyticsPython, C, C++, SQL, HTML, CSS,
Javascript, UI/UX Design

Non-Technical Skills
Problem-Solving, Event Management, Team
Building, Public Speaking

Projects

ImmFinder: A Multimodal Deep Neural Network for Immune Gene Classification
Developed a DL model to utilise a multi-modal training approach to classify immune genes

Machine learning - based model generation to functionally annotate LPMOs ↗
Developed an ML model using 3D structural features to classify cellulolytic and chitinolytic LPMOs

Deep Learning - Based Architecture for Predicting Smell Classes from SMILES Representations
Developed a Graph Neural Network model in Deep Learning using SMILES to predict odorant classes

Studentverse Wrapped '24 - User Interface ↗
Designed the user interface for Studentverse Wrapped '24 - A captivating wrapped series featured on the
official student-run app of SASTRA University.

Publications

Surface exposed and charged residues drive thermostability in Fungi ↗
Senthilkumar S, Mahesh S, Subachandran J K Yennamalli RM (2023) Surface exposed and charged
residues drive thermostability in Fungi PROTEINS: Structure, Function, and Bioinformatics

Competions and Awards

Second Place, 2023-2024 ISCB English Wikipedia Competition
International Society for Computational Biology (ISCB)
• **Awarded for exceptional contributions to the Wikipedia article on comparative genomics**

Positions of Responsibility

Team Lead | 300DPI - The official Design and Development Team of   February 2023 – present
SASTRA ↗